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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A method for characterizing a nucleic acid-protein interaction comprising:
 - (a) immobilizing a nucleic acid or a protein within a solid support;
- (b) contacting the <u>immobilized</u> nucleic acid <u>with a protein in aqueous solution</u> or <u>and contacting</u> the <u>immobilized</u> protein <u>with a nucleic acid in aqueous solution</u> under conditions which allow the <u>immobilized</u> nucleic acid and the protein <u>or the immobilized protein</u> and the nucleic acid to interact; and
 - (c) measuring the strength of the nucleic acid-protein interaction, <u>if any</u>.
- 2. (Original) The method of claim 1 further comprising repeating steps (a) through (c) one or more times.
- 3. (Original) The method of claim 2 wherein the nucleic acid, protein or both used in repeated steps (a) through (c) are different from the respective nucleic acid, protein or both used in the first iteration.
- 4. (Original) The method of claim 1 wherein the nucleic acid is selected from the group consisting of ss RNA, ds RNA, ss DNA and PNA.
 - 5. (Original) The method of claim 1 wherein the solid support is a gel pad.
- 6. (Original) The method of claim 1 wherein the strength of the nucleic acidprotein interaction is measured through Tm or a change in Tm.

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7. (Original) The method of claim 1 wherein the strength of the nucleic acidprotein interaction is measured through fluorescence or a change in fluorescence.

- 8. (Currently Amended) The method of claim 1 wherein the <u>immobilized</u> nucleic acid sequence <u>and nucleic acid sequence in aqueous solution is are</u> selected from the group consisting of a nucleic acid having a predetermined sequence and nucleic acid not having a predetermined sequence.
- 9. (Currently Amended) The method of claim 1 wherein the <u>immobilized</u> protein <u>and protein in aqueous solution</u> is are selected from the group of proteins consisting of a predetermined protein and a protein which is not predetermined.
- 10. (Original) The method of claim 8 wherein the nucleic acid does not have a predetermined sequence further comprising determining the sequence of the nucleic acid.
- 11. (Original) The method of claim 9 wherein the protein is not predetermined further comprising determining the identity of the protein.
- 12. (Original) The method of claim 1 wherein the nucleic acid sequence is a nucleic acid encoding a functional nucleic acid sequence.
- 13. (Original) The method of claim 12 wherein the functional nucleic acid sequence is a promoter or gene.
- 14. (Original) The method of claim 1 wherein the protein modulates the activity or expression of a gene or gene product.
- 15. (Original) A kit for characterizing nucleic acid-protein interactions comprising instructions for carrying out the method of claim 1.
- 16. (Original) The kit of claim 15 further comprising one or more of a solid support, buffer, dyes or disposable lab equipment.
 - 17 23. Cancelled.